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DIVISION OF
MARINE FISHERIES

1969
Massachusetts Coastal Lobster Fishery Statistics

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DECEMBER, 1970

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1969 *Massachusetts Coastal Lobster Fishery Statistics*

by
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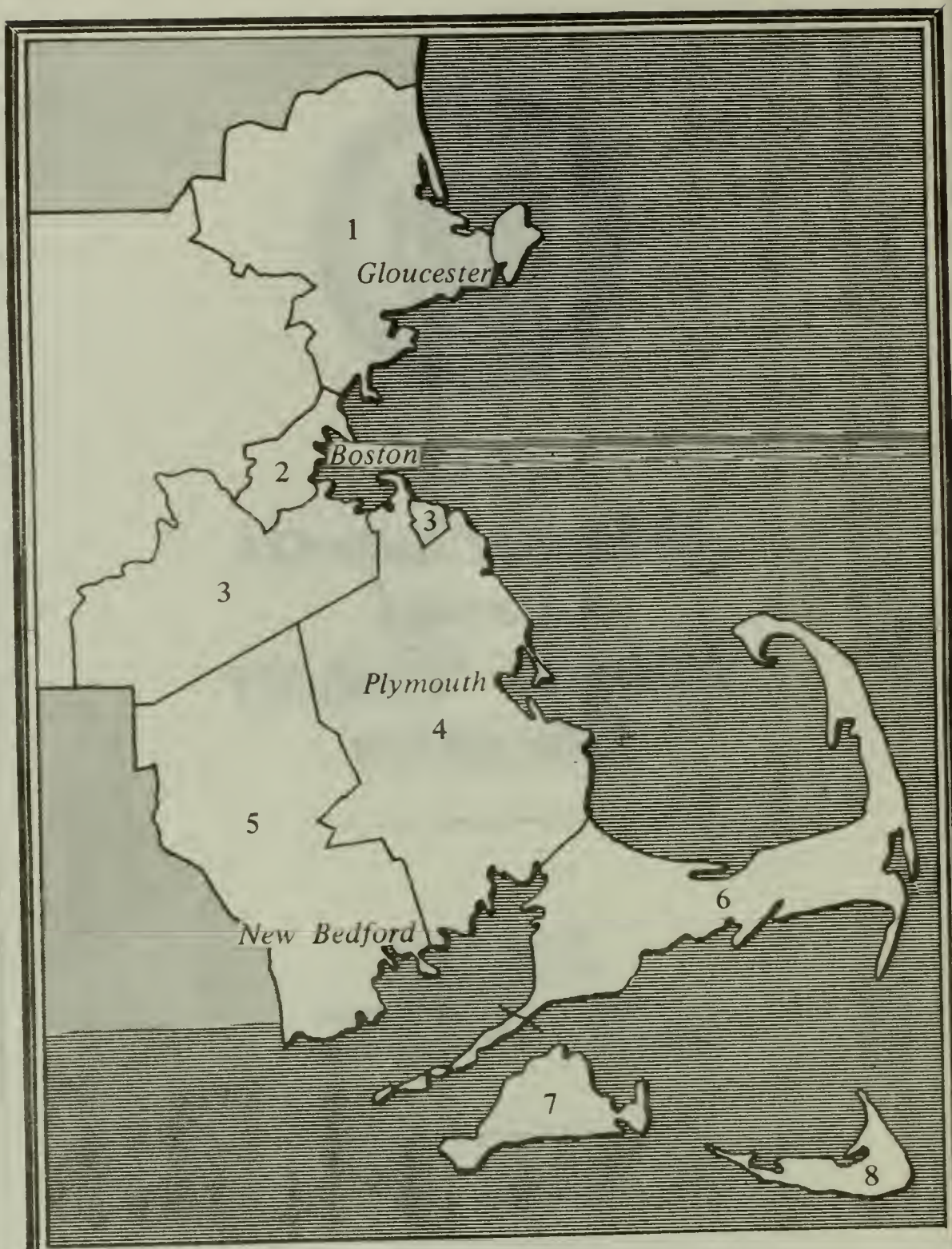

COASTAL MAP of MASSACHUSETTS
SHOWING STATISTICAL REPORTING AREAS (Counties)

1. Essex	3. Norfolk	5. Bristol	7. Dukes
2. Suffolk	4. Plymouth	6. Barnstable	8. Nantucket

Figure 1

INTRODUCTION

This report on the 1969 Massachusetts coastal lobster (Homarus americanus) fishery statistics has been prepared by the Commercial Fisheries Statistics Unit of the Massachusetts Division of Marine Fisheries, operating with federal and state funds under the Commercial Fisheries Research and Development Act of 1964, P.L. 88-309.

The coastal lobster fishery is the most valuable fishery conducted within Massachusetts' territorial waters. This report does not include the offshore fishery which operates beyond the Commonwealth's territorial waters, primarily by otter trawl vessels.

A reliable statistical analysis is necessary to fully evaluate the complex biological, economic and sociological aspects and problems of this important fishery. This report and similar ones by Peterson (1968) and by Anderson and Scofield (1969) represent the first attempts at collecting and presenting standardized statistical information.

Acknowledgment is given to personnel of the Division who assisted in the processing of material used in this report. Credit is especially due the lobstermen of Massachusetts who have recognized the need for and value of statistics and responded by filing complete and accurate reports on their fishing activities.

SOURCE OF DATA

General Laws, Chapter 130, Section 38 stipulates that all persons taking lobsters from the territorial waters of the Commonwealth must have a valid license issued by the Director of the Division of Marine Fisheries. Section 33 further states that any person licensed under Section 38 shall file an annual report of his catch.

At the end of each calendar year, catch report forms and an application for a new license are sent to each license holder. The licensee then files a confidential report with the Division by the required date. Follow-up requests are made to non-respondents to obtain their reports. The report includes: name and license numbers of fishermen reporting; methods used; the number, type and value of gear employed; percent of use for lobster fishing; number, weight and value of lobsters landed; and ports where landed. Project personnel edit, code and tabulate all reports.

For 1969, 94% of the 6,157 license holders filed reports. The statistics presented herein are based solely on these reports and are not expanded to the 100% level. A survey of non-respondents (Peterson, 1968) indicated that most did not report because of death, serious illness, military service, or moving from the area.

EXPLANATION OF TABLES

Area

Statistics are reported for the county in which the catch was landed. In those instances where the catch was landed in more than two counties or the county could not be determined, the data was placed in the category of "other".

FISHERMAN CLASSIFICATION

Full-time and part-time commercial fishermen and family fishermen comprise Massachusetts' lobster fishery. For statistical purposes these fisherman are classed as regular, casual and other, respectively. They are further sub-classed according to their method of fishing: potmen; diver; or the combination, diver-potmen.

Commercial and family fishermen are separated by requiring persons selling their catch to indicate the value of their landings. Of the commercial fishermen, those fishing 100 or more pots are classed as regulars, and the remainder as casuals. These criteria were established as a result of a study (Peterson, unpublished) relating the fishermen's level of involvement in the fishery with the number of pots fished.■

VALUE

The value of the catch is based on the price received by the fisherman. When individual values were not specified, the average price paid in that area was used. Gear values were calculated as a direct proportion between the present value and the percent of use of that gear for lobster fishing, yeilding a present value related directly to the fishery. When present value and percent of use were not obtainable, the average value in the appropriate category was used. Values for pots were computed using an average value of $9.00 per pot in all areas.■

1969 HIGHLIGHTS

1.) There were 6,157 licenses issued in 1969; 3,508 potmen, 1,947 divers, 611 diver-potmen and 91 helpers.

2.) Of 5,783 fishermen filing reports, 1,908 reported they did not fish in 1969, after spending $19,080 for licenses.

3.) A total of 3,598,929 pounds of lobsters were landed. Commercial fishermen landed 3,380,581 pounds valued at $3,333,406.

4.) Regular fishermen comprised 15% of the fishermen, set 78% of the pots and landed 86% of the total pounds of lobsters caught.

5.) Family (other) fishermen represented 60% of the fishermen, and landed 6% of the catch.

6.) While divers made up 33% of the fishermen, they accounted for only 2% of the catch.

7.) Essex County ranked first in landings with 1,278,919 pounds, while Plymouth and Suffolk Counties ranked second and third, landing 728,126 and 543,620 pounds, respectively.

8.) Essex County also ranked first in the total number of fishermen with 1,602. Plymouth County followed with 798 fishermen, while Barnstable County ranked third with 556 fishermen.

9.) Pots were valued at $1,273,734, diving gear at $216,364 and boats at $2,775,421 for a total gear value of $4,265,519. Combining the total gear value with the total value of the lobsters sold gives a total fishery value of $7,598,925.

The reader is referred to tables 2 - 15 for detailed statistics. ■

LITERATURE CITED

Anderson, Charles O., Jr., and Larry Scofield, 1969. 1968 Massachusetts Coastal Lobster Fishery Statistics. Mass. Div. Marine Fisheries, Tech. Ser. No. 4, 19 pp.

Lyles, Charles H., 1968. Fishery Statistics of the United States 1966. U.S. Bureau of Commercial Fisheries Stat. Dig. No. 60, 679 pp.

Peterson, Allen E., Jr., 1968. 1967 Massachusetts Coastal Lobster Fishery Statistics. Mass. Div. Marine Fisheries, Tech. Ser. No. 3, 20 pp.

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COMPARISON OF SELECTED COASTAL LOBSTER STATISTICS

TABLE 1

1967, 1968 & 1969

	1967	1968	1969
Licenses Issued	4,299	5,229	6,157
Licensees Reported Fishing	2,721	3,411	3,875
Pounds of Lobsters Landed	3,102,970	3,673,014	3,598,929
Commercial Value of Lobsters Landed*	$2,869,178	$3,141,355	$3,333,406
Total Fishery Value	$6,302,555	$7,164,969	$7,598,925
Number of Pots Fished	130,691	141,072	141,526
Average Catch Per Fisherman - (in pounds, all categories)	1,140	1,077	929
Average Catch Per Regular Fisherman (lbs.)	5,319	5,396	5,485
Average Catch Per Casual Fisherman (lbs.)	477	417	442
Average Catch Per Other Fisherman (lbs.)	82	70	81
Average Catch Per Pot (lbs.)	23.2	25.5	25.4
Average Price Paid Per Pound	96.6¢	89.0¢	98.6¢
Average Weight Per Lobster (lbs.)	1.16	1.18	1.16

*Includes landings of regular and casual fishermen only.

TABLE 2

Number and Kind of Lobster Licenses Issued in 1969

Divers	1,947
Potmen	3,508
Helpers	91
Diver-Potmen	611
	6,157

TABLE 3

Status of Licensees Filing Catch Reports for 1969

Licensees Reporting	5,783	(93.9%)
Licensees DNF*	1,908	
Licensees fishing:		
Divers	1,278	
Potmen	2,409	
Diver-Potmen	188	
Total Fishing	3,875	

*Did not fish in 1969

TABLE 4

Total Value For Massachusetts Coastal Lobster Fishery

1969*

Gear:	
Pots	$1,273,734
Diving Gear	216,364
Inboard boats	2,073,991
Outboard and other boats	701,430
Sub-total	$4,265,519
Lobster Sold	$3,333,406
Total	$7,598,925

*Based on annual reports by fishermen.

TABLE 5

NUMBER OF FISHERMEN

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR										
POTMEN	44	63	14	220		30	111	72	5	559
DIVERS										
POTMAN-DIVERS				5		1	1			7
SUB-TOTAL	44	63	14	225		31	112	72	5	566
CASUAL										
POTMEN	72	50	13	221	3	32	134	26	10	561
DIVERS	1		1	13		2	4			21
POTMAN-DIVERS	9	1	1	14		4	12	1		42
SUB-TOTAL	82	51	15	248	3	38	150	27	10	624
OTHER										
POTMEN	294	85	50	340	7	73	342	77	21	1,289
DIVERS	103	12	8	724		60	174	72	104	1,257
POTMAN-DIVERS	33	1	2	65		5	20	13		139
SUB-TOTAL	430	98	60	1,129	7	138	536	162	125	2,685
TOTAL	556	212	89	1,602	10	207	798	261	140	3,875

* *Based on annual reports filed by fisherman*

Massachusetts Department of Natural Resources · Division of Marine Fisheries

TABLE 6

POUNDS OF LOBSTER LANDED

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR										
POTMEN	220,398	369,409	73,854	1,031,602		212,117	605,393	519,712	20,025	3,052,510
DIVERS										
POTMAN-DIVERS				32,098		740	19,344			52,182
SUB-TOTAL	220,398	369,409	73,854	1,063,700		212,857	624,737	519,712	20,025	3,104,692
CASUAL										
POTMEN	30,838	25,067	4,479	117,402	1,648	9,574	56,760	9,010	1,663	256,441
DIVERS	300		127	1,890		163	322			2,802
POTMAN-DIVERS	5,889	105	108	6,310		954	3,010	270		16,646
SUB-TOTAL	37,027	25,172	4,714	125,602	1,648	10,691	60,092	9,280	1,663	275,889
OTHER										
POTMEN	28,153	8,210	4,676	40,769	670	5,892	33,129	8,796	1,524	131,819
DIVERS	9,030	431	746	39,832		3,880	8,435	4,505	4,878	71,737
POTMAN-DIVERS	2,411	90	119	9,016		96	1,733	1,327		14,792
SUB-TOTAL	39,594	8,731	5,541	89,617	670	9,868	43,297	14,628	6,402	218,348
TOTAL	297,019	403,312	84,109	1,278,919	2,318	233,416	728,126	543,620	28,090	3,598,929

** Based on annual reports filed by fisherman*

TABLE 7

NUMBER OF LOBSTERS LANDED

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR										
POTMEN	139,403	347,118	60,932	931,276		181,131	536,729	440,083	18,038	2,654,710
DIVERS										
POTMAN-DIVERS				27,999		552	17,118			45,669
SUB-TOTAL	139,403	347,118	60,932	959,275		181,683	553,847	440,083	18,038	2,700,379
CASUAL										
POTMEN	21,443	22,134	3,535	105,221	1,329	8,221	47,706	7,367	1,348	218,304
DIVERS	208		83	1,601		108	269			2,269
POTMAN-DIVERS	4,040	105	85	5,435		715	2,413	221		13,014
SUB-TOTAL	25,691	22,239	3,703	112,257	1,329	9,044	50,388	7,588	1,348	233,587
OTHER										
POTMEN	19,088	6,627	3,523	30,668	412	4,257	25,502	6,402	954	97,433
DIVERS	5,300	339	575	29,156		2,557	5,893	3,036	3,307	50,163
POTMAN-DIVERS	1,389	55	90	6,851		69	1,388	1,013		10,855
SUB-TOTAL	25,777	7,021	4,188	66,675	412	6,883	32,783	10,451	4,261	158,451
TOTAL	190,871	376,378	68,823	1,138,207	1,741	197,610	637,018	458,122	23,647	3,092,417

** Based on annual reports filed by fisherman*

TABLE 8

EX-VESSEL VALUE OF LOBSTERS LANDED

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR										
POTMEN	$ 238,754	$ 352,387	$ 76,088	$1,013,743		$ 210,474	$ 585,559	$ 510,181	$ 17,038	$3,004,224
DIVERS										
POTMAN-DIVERS				32,379		774	19,087			52,240
SUB-TOTAL	$ 238,754	$ 352,387	$ 76,088	$1,046,122		$ 211,248	$ 604,646	$ 510,181	$ 17,038	$3,056,464
CASUAL										
POTMEN	$ 32,290	$ 23,369	$ 4,494	$ 115,310	$ 2,492	$ 9,415	$ 59,300	$ 8,845	$ 1,615	$ 257,130
DIVERS	300		124	1,940		162	332			2,858
POTMAN-DIVERS	6,305	105	109	6,256		944	3,035	200		16,954
SUB-TOTAL	$ 38,895	$ 23,474	$ 4,727	$ 123,506	$ 2,492	$ 10,521	$ 62,667	$ 9,045	$ 1,615	$ 276,942
OTHER										
POTMEN										
DIVERS										
POTMAN-DIVERS										
SUB-TOTAL										
TOTAL	$ 277,649	$ 375,861	$ 80,815	$1,169,628	$ 2,492	$ 221,769	$ 667,313	$ 519,226	$ 18,653	$3,333,406

** Based on annual reports filed by fisherman*

TABLE 9

NUMBER OF POTS FISHED

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR POTMEN	9,468	12,014	2,392	35,226		6,850	23,763	18,505	350	108,568
DIVERS										
POTMAN-DIVERS				1,015		100	214			1,329
SUB-TOTAL	9,468	12,014	2,392	36,241		6,950	23,977	18,505	350	109,897
CASUAL POTMEN	2,097	1,964	368	7,647	155	796	4,409	916	135	18,487
DIVERS										
POTMAN-DIVERS	207	9	50	325		111	259	10		971
SUB-TOTAL	2,304	1,973	418	7,972	155	907	4,668	926	135	19,458
OTHER POTMEN	2,278	690	419	3,230	56	564	2,788	772	151	10,948
DIVERS										
POTMAN DIVERS	182	6	12	666		42	167	148		1,223
SUB-TOTAL	2,460	696	431	3,896	56	606	2,955	920	151	12,171
TOTAL	14,232	14,683	3,241	48,109	211	8,463	31,600	20,351	636	141,526

** Based on annual reports filed by fisherman*

Massachusetts Department of Natural Resources · Division of Marine Fisheries

TABLE 10

VALUE OF POTS FISHED
IN MASSACHUSETTS COASTAL LOBSTER FISHERY
1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR POTMEN	$ 85,212	$108,126	$21,528	$317,034		$61,650	$213,867	$166,545	$3,150	$ 977,112
DIVERS										
POTMAN-DIVERS				9,135		900	1,926			11,961
SUB-TOTAL	$ 85,212	$108,126	$21,528	$326,169		$62,550	$215,793	$166,545	$3,150	$ 989,073
CASUAL POTMEN	$ 18,873	$ 17,676	$ 3,312	$ 68,823	$1,395	$ 7,164	$ 39,681	$ 8,244	$1,215	$ 166,383
DIVERS										
POTMAN-DIVERS	1,863	81	450	2,925		999	2,331	90		8,739
SUB-TOTAL	$ 20,736	$ 17,757	$ 3,762	$ 71,748	$1,395	$ 8,163	$ 42,012	$ 8,334	$1,215	$ 175,122
OTHER POTMEN	$ 20,502	$ 6,210	$ 3,771	$ 29,070	$ 504	$ 5,076	$ 25,092	$ 6,948	$1,359	$ 98,532
OIVERS										
POTMAN-DIVERS	1,638	54	108	5,994		378	1,503	1,332		11,007
SUB-TOTAL	$ 22,140	$ 6,264	$ 3,879	$ 35,064	$ 504	$ 5,454	$ 26,595	$ 8,280	$1,359	$ 109,539
TOTAL	$128,808	$132,147	$26,169	$432,981	$1,899	$76,167	$284,400	$183,159	$5,724	$1,273,734

** Based on annual reports filed by fisherman*

TABLE 11

VALUE OF DIVING GEAR USED

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR										
POTMEN										
DIVERS										
POTMAN-DIVERS				$ 447		$ 250	$ 140			$ 837
SUB-TOTAL				$ 447		$ 250	$ 140			$ 837
CASUAL										
POTMEN										
DIVERS	$ 150		$ 38	$ 2,659		$ 200	$ 882			$ 3,929
POTMAN-DIVERS	1,270	$ 10	15	1,997		826	675	$ 210		$ 5,003
SUB-TOTAL	$ 1,420	$ 10	$ 53	$ 4,656		$ 1,026	$ 1,557	$ 210		$ 8,932
OTHER										
POTMEN										
DIVERS	$17,598	$ 863	$796	$108,202		$ 9,889	$25,391	$12,216	$14,345	$189,300
POTMAN-DIVERS	6,114	142	63	7,698		446	1,708	1,124		17,295
SUB-TOTAL	$23,712	$1,005	$859	$115,900		$10,335	$27,099	$13,340	$14,345	$206,595
TOTAL	$25,132	$1,015	$912	$121,003		$11,611	$28,796	$13,550	$14,345	$216,364

* *Based on annual reports filed by fisherman*

Massachusetts Department of Natural Resources - Division of Marine Fisheries

TABLE 12

NUMBER OF INBOARD POWER BOATS

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR POTMEN	24	38	10	116		23	67	35	3	316
DIVERS										
POTMAN-DIVERS				4		1				5
SUB-TOTAL	24	38	10	120		24	67	35	3	321
CASUAL POTMEN	14	14	3	50		10	24	7	4	126
DIVERS				1			2			3
POTMAN-DIVERS	1		2	4		2	3	1		13
SUB-TOTAL	15	14	5	55		12	29	8	4	142
OTHER POTMEN	44	7	12	45		9	44	24	6	191
DIVERS	5	1		18		7	9	9	1	50
POTMAN-DIVERS	4		1	13		1	3	3		25
SUB-TOTAL	53	8	13	76		17	56	36	7	266
TOTAL	92	60	28	251		53	152	79	14	729

** Based on annual reports filed by fisherman*

TABLE 13

VALUE OF INBOARD BOATS

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR										
POTMEN	$145,066	$181,081	$69,500	$519,563		$132,907	$331,650	$216,430	$ 8,000	$1,604,197
DIVERS										
POTMAN-DIVERS				24,000		5,000				29,000
SUB-TOTAL	$145,066	$181,081	$69,500	$543,563		$137,907	$331,650	$216,430	$ 8,000	$1,633,197
CASUAL										
POTMEN	$ 36,158	$ 19,563	$ 3,050	$ 73,418		$ 14,533	$ 56,402	$ 10,675	$ 2,665	$ 216,464
DIVERS				1,750			1,600			3,350
POTMAN-DIVERS	360		1,152	3,000		3,250	1,500	1,000		10,262
SUB-TOTAL	$ 36,518	$ 19,563	$ 4,202	$ 78,168		$ 17,783	$ 59,502	$ 11,675	$ 2,665	$ 230,076
OTHER										
POTMEN	$ 32,962	$ 3,690	$ 9,876	$ 32,320		$ 6,300	$ 31,740	$ 16,825	$ 3,360	$ 137,073
DIVERS	665	1,500		13,885		11,415	9,550	5,880	1,250	44,145
POTMAN-DIVERS	2,945		100	22,180		815	2,015	1,445		29,500
SUB-TOTAL	$ 36,572	$ 5,190	$ 9,976	$ 68,385		$ 18,530	$ 43,305	$ 24,150	$ 4,610	$ 210,718
TOTAL	$218,156	$205,834	$83,678	$690,116		$174,220	$434,457	$252,255	$15,275	$2,073,991

** Based on annual reports filed by fisherman*

Massachusetts Department of Natural Resources - Division of Marine Fisheries

TABLE 14

NUMBER OF OUTBOARD AND NON-POWER BOATS

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR										
POTMEN	23	15	2	49		10	65	8		172
DIVERS										
POTMAN-DIVERS				5			1			6
SUB-TOTAL	23	15	2	54		10	66	8		178
CASUAL										
POTMEN	50	33	10	162	3	23	107	16	5	409
DIVERS	1			1		1	2			5
POTMAN-DIVERS	10	1		12		3	9			35
SUB-TOTAL	61	34	10	175	3	27	113	16	5	449
OTHER										
POTMEN	189	65	35	259	7	53	269	39	12	928
DIVERS	39	3	5	114		18	32	12	7	230
POTMAN-DIVERS	27	1	1	44		5	16	8		102
SUB-TOTAL	255	69	41	417	7	76	317	59	19	1,260
TOTAL	339	118	53	646	10	113	501	83	24	1,887

** Based on annual reports filed by fisherman*

TABLE 15

VALUE OF OUTBOARD & NON-POWER BOATS

IN MASSACHUSETTS COASTAL LOBSTER FISHERY

1969*

FISHERMAN CLASSIFICATION	COUNTIES									TOTAL
	BARNSTABLE	BRISTOL	DUKES	ESSEX	NANTUCKET	NORFOLK	PLYMOUTH	SUFFOLK	OTHER	
REGULAR POTMEN	$ 17,868	$17,546	$ 460	$ 34,781		$ 4,975	$ 33,062	$ 6,650		$115,342
DIVERS										
POTMAN-DIVERS				2,790			1,400			4,190
SUB-TOTAL	$ 17,868	$17,546	$ 460	$ 37,571		$ 4,975	$ 34,462	$ 6,650		$119,532
CASUAL POTMEN	$ 24,032	$16,030	$ 7,655	$ 65,151	$2,030	$ 9,941	$ 47,592	$10,173	$1,145	$183,749
DIVERS	300			38		515	1,650			2,503
POTMAN-DIVERS	4,435	113		3,618		673	3,280			12,119
SUB-TOTAL	$ 28,767	$16,143	$ 7,655	$ 68,807	$2,030	$11,129	$ 52,522	$10,173	$1,145	$198,371
OTHER POTMEN	$ 65,958	$15,972	$ 8,514	$ 73,716	$3,545	$16,728	$ 71,578	$14,618	$2,580	$273,209
DIVERS	14,678	235	515	36,568		5,545	13,604	5,251	1,849	78,245
POTMAN-DIVERS	8,611	341	105	13,719		624	6,561	2,112		32,073
SUB-TOTAL	$ 89,247	$16,548	$ 9,134	$124,003	$3,545	$22,897	$ 91,743	$21,981	$4,429	$383,527
TOTAL	$135,882	$50,237	$17,249	$230,381	$5,575	$39,001	$178,727	$38,804	$5,574	$701,430

* *Based on annual reports filed by fisherman*

Massachusetts Department of Natural Resources - Division of Marine Fisheries